

Having described the invention, we claim:

1. A system for determining signal attenuation for an electronic support measure receiver, said system comprising:

a detection module for receiving electromagnetic signals from a surrounding environment;

a processing module for chronologically segregating the electromagnetic signals into a plurality of dwells, said processing module controlling the processing of said plurality of dwells,

said processing module determining an analysis dwell from said plurality of dwells, said processing module computing a coarse attenuation for the analysis dwell, said processing module further computing a fine attenuation from the coarse attenuation and an offset table value.

2. The system as set forth in claim 1 wherein said processing module computes the fine attenuation by subtracting the offset table value from the coarse attenuation.

3. The system as set forth in claim 2 wherein said processing module determines whether the fine attenuation is greater than an attenuation threshold.

4. The system as set forth in claim 3 wherein said processing module sets the fine attenuation to zero.

5. The system as set forth in claim 3 wherein said processing module sets the fine attenuation to a predetermined attenuation value.

6. The system as set forth in claim 1 wherein said processing module determines whether a new analysis dwell is required.

7. The system as set forth in claim 1 wherein said processing module spawns a new analysis dwell.

8. The system as set forth in claim 1 wherein said processing module executes the analysis dwell.

9. The system as set forth in claim 1 wherein the coarse attenuation equals a measured signal amplitude minus a predetermined analysis signal level.

10. The system as set forth in claim 1 wherein said processing module determines whether one of said plurality of dwells is an analysis dwell.

11. A computer program product for determining signal attenuation for an electronic support measure receiver, said computer program product comprising:

    a first instruction for receiving electromagnetic signals from a surrounding environment;

    a second instruction for chronologically segregating the electromagnetic signals into a plurality of dwells;

    a third instruction for controlling the processing of the plurality of dwells;

    a fourth instruction for determining an analysis dwell from the plurality of dwells; and

    a fifth instruction for computing a coarse attenuation for the analysis dwell.

12. The computer program product as set forth in claim 11 further including a sixth instruction for computing a fine attenuation from the coarse attenuation and an offset table value.

13. The computer program product as set forth in claim 11 further including a sixth instruction for determining whether a fine attenuation is greater than an attenuation threshold.

14. The computer program product as set forth in claim 11 further including a sixth instruction for setting a fine attenuation to zero.

15. The computer program product as set forth in claim 11 further including a sixth instruction for setting a fine attenuation to a predetermined attenuation value.

16. A method for determining signal attenuation for an electronic support measure receiver, said method comprising the steps of:

receiving electromagnetic signals from a surrounding environment;

chronologically segregating the electromagnetic signals into a plurality of dwells;

controlling the processing of the plurality of dwells;

determining an analysis dwell from the plurality of dwells;

computing an update attenuation of the analysis dwell;

determining whether a new analysis dwell is required; and

computing a coarse attenuation of the new analysis dwell.

17. The method as set forth in claim 16 further including the step of executing the analysis dwell.

18. The method as set forth in claim 16 further including the step of computing the coarse attenuation by subtracting a predetermined analysis signal level from a measured signal amplitude.

19. The method as set forth in claim 16 further including the step of determining whether one of the plurality of dwells is an analysis dwell.

20. The method as set forth in claim 16 further including the step of computing a fine attenuation from the coarse attenuation and an offset table value.